

# HEL List for AK644; Ketchikan Area, Alaska

R Value = 275; C = 1

Mapunit Symbol	Mapunit name	HEL Water (R = 275)	HEL Wind
1C	Vixen fine sandy loam, 5 to 35 percent slopes	HEL	NHEL
1D	Vixen fine sandy loam, 35 to 60 percent slopes	HEL	NHEL
1E	Vixen fine sandy loam, 60 to 75 percent slopes	HEL	NHEL
1F	Vixen fine sandy loam, 75 to 100 percent slopes	HEL	NHEL
2D	Traitors silt loam, 35 to 60 percent slopes	HEL	NHEL
2E	Traitors silt loam, 60 to 75 percent slopes	HEL	NHEL
2F	Traitors silt loam, 75 to 100 percent slopes	HEL	NHEL
3D	Vixen-Traitors complex, 35 to 60 percent slopes	HEL	NHEL
3E	Vixen-Traitors complex, 60 to 75 percent slopes	HEL	NHEL
3F	Vixen-Traitors complex, 75 to 100 percent slopes	HEL	NHEL
4C	Helm muck, 5 to 35 percent slopes	HEL	NHEL
4D	Helm muck, 35 to 60 percent slopes	HEL	NHEL
4E	Helm muck, 60 to 75 percent slopes	HEL	NHEL
4F	Helm muck, 75 to 100 percent slopes	HEL	NHEL
5C	Meares silt loam, 5 to 35 percent slopes	HEL	NHEL
5D	Meares silt loam, 35 to 60 percent slopes	HEL	NHEL
5E	Meares silt loam, 60 to 75 percent slopes	HEL	NHEL
6	McGilvery-Traitors complex, 60 to 100 percent slopes	HEL	NHEL
7D	Waterfall extremely gravelly loam, 35 to 60 percent slopes	HEL	NHEL
7E	Waterfall extremely gravelly loam, 60 to 75 percent slopes	HEL	NHEL
10	Tonowek and Tuxekan soils, 0 to 15 percent slopes	HEL	NHEL
11C	Remedios silt loam, 5 to 35 percent slopes	HEL	NHEL
11D	Remedios silt loam, 35 to 60 percent slopes	HEL	NHEL
11E	Remedios silt loam, 60 to 75 percent slopes	HEL	NHEL
12	Aeric Cryaquepts, 0 to 3 percent slopes	NHEL	NHEL
13	Salt Chuck extremely gravelly loam, 0 to 10 percent slopes	NHEL	NHEL
14D	Shakan sandy loam, 35 to 60 percent slopes	HEL	NHEL
14DFX	Shakan sandy loam, 35 to 100 percent slopes	HEL	NHEL
14EF	Shakan sandy loam, 60 to 150 percent slopes	HEL	NHEL
15	Cryorthents	HEL	NHEL
18C	Hofstad peat, 5 to 35 percent slopes	HEL	NHEL
18D	Hofstad peat, 35 to 60 percent slopes	HEL	NHEL
18E	Hofstad peat, 60 to 75 percent slopes	HEL	NHEL
19C	Helm muck, granitic, 5 to 35 percent slopes	HEL	NHEL
19D	Helm muck, granitic, 35 to 60 percent slopes	HEL	NHEL
19E	Helm muck, granitic, 60 to 75 percent slopes	HEL	NHEL
19F	Helm muck, granitic, 75 to 100 percent slopes	HEL	NHEL
20C	Maybeso-Kaikli complex, 5 to 35 percent slopes	HEL	NHEL
20CDX	Maybeso-Kaikli complex, 5 to 60 percent slopes	HEL	NHEL
20D	Maybeso-Kaikli complex, 35 to 60 percent slopes	HEL	NHEL
21A	Kogish peat, 0 to 5 percent slopes	NHEL	NHEL
22	Talus slopes	N/A	N/A
23	Kina-Kaikli association, 0 to 40 percent slopes	PHL	NHEL
24AC	Kaikli mucky peat, 0 to 35 percent slopes	HEL	NHEL
24D	Kaikli mucky peat, 35 to 60 percent slopes	HEL	NHEL
24E	Kaikli mucky peat, 60 to 75 percent slopes	HEL	NHEL
25	Kaikli-Kina association, 0 to 40 percent slopes	HEL	NHEL

26A	Staney peat, 0 to 5 percent slopes	NHEL	NHEL
27EF	Talus slopes-McGilvery complex, 60 to 100 percent slopes	N/A	N/A
28	McGilvery and Tolstoi soils, 5 to 60 percent slopes	HEL	NHEL
29C	McGilvery peat, 5 to 35 percent slopes	HEL	NHEL
29D	McGilvery peat, 35 to 60 percent slopes	HEL	NHEL
29EF	McGilvery peat, 60 to 100 percent slopes	HEL	NHEL
30C	Karta silt loam, 5 to 35 percent slopes	HEL	NHEL
30CFX	Karta silt loam, 5 to 100 percent slopes	HEL	NHEL
30D	Karta very fine sandy loam, 35 to 60 percent slopes	HEL	NHEL
30E	Karta silt loam, 60 to 75 percent slopes	HEL	NHEL
30F	Karta silt loam, 75 to 100 percent slopes	HEL	NHEL
31C	Wadleigh gravelly silt loam, 5 to 35 percent slopes	HEL	NHEL
31CDX	Wadleigh gravelly silt loam, 5 to 60 percent slopes	HEL	NHEL
31D	Wadleigh gravelly silt loam, 35 to 60 percent slopes	HEL	NHEL
31E	Wadleigh gravelly silt loam, 60 to 75 percent slopes	HEL	NHEL
32C	St. Nicholas very fine sandy loam, 5 to 35 percent slopes	HEL	NHEL
32CDX	St. Nicholas very fine sandy loam, 5 to 60 percent slopes	HEL	NHEL
32CFX	St. Nicholas very fine sandy loam, 5 to 100 percent slopes	HEL	NHEL
32D	St. Nicholas very fine sandy loam, 35 to 60 percent slopes	HEL	NHEL
32E	St. Nicholas very fine sandy loam, 60 to 75 percent slopes	HEL	NHEL
32EFX	St. Nicholas very fine sandy loam, 60 to 100 percent slopes	HEL	NHEL
32F	St. Nicholas very fine sandy loam, 75 to 100 percent slopes	HEL	NHEL
33C	St. Nicholas-McGilvery complex, 5 to 35 percent slopes	HEL	NHEL
33CFX	St. Nicholas-McGilvery complex, 5 to 100 percent slopes	HEL	NHEL
33D	St. Nicholas-McGilvery complex, 35 to 60 percent slopes	HEL	NHEL
33E	St. Nicholas-McGilvery complex, 60 to 75 percent slopes	HEL	NHEL
33F	St. Nicholas-McGilvery complex, 75 to 100 percent slopes	HEL	NHEL
34D	St. Nicholas-Shakan association, 35 to 60 percent slopes	HEL	NHEL
34DFX	St. Nicholas-Shakan association, 35 to 100 percent slopes	HEL	NHEL
34E	St. Nicholas-Shakan association, 60 to 75 percent slopes	HEL	NHEL
34F	St. Nicholas-Shakan association, 75 to 100 percent slopes	HEL	NHEL
35C	St. Nicholas-Tolstoi complex, 5 to 35 percent slopes	HEL	NHEL
35D	St. Nicholas-Tolstoi complex, 35 to 60 percent slopes	HEL	NHEL
35E	St. Nicholas-Tolstoi complex, 60 to 75 percent slopes	HEL	NHEL
35F	St. Nicholas-Tolstoi complex, 75 to 100 percent slopes	HEL	NHEL
36AC	Magnetic mucky peat, 0 to 35 percent slopes	HEL	NHEL
36D	Magnetic mucky peat, 35 to 60 percent slopes	HEL	NHEL
37AC	Golden very fine sandy loam, 0 to 35 percent slopes	HEL	NHEL
37D	Golden very fine sandy loam, 35 to 60 percent slopes	HEL	NHEL
38AC	Magnetic-Golden complex, 0 to 35 percent slopes	HEL	NHEL
38D	Magnetic-Golden complex, 35 to 60 percent slopes	HEL	NHEL
40C	Sarkar-McGilvery complex, 5 to 35 percent slopes	HEL	NHEL
40D	Sarkar-McGilvery complex, 35 to 60 percent slopes	HEL	NHEL
40DEX	Sarkar-McGilvery complex, 35 to 75 percent slopes	HEL	NHEL
40E	Sarkar-McGilvery complex, 60 to 75 percent slopes	HEL	NHEL
43D	Shakan-McGilvery association, 35 to 60 percent slopes	HEL	NHEL
43EFX	Shakan-McGilvery association, 60 to 150 percent slopes	HEL	NHEL
48C	Helm-Kitkun complex, 5 to 35 percent slopes	HEL	NHEL
49C	Kina-Kitkun complex, 5 to 35 percent slopes	PHL	NHEL
49D	Kina-Kitkun complex, 35 to 60 percent slopes	HEL	NHEL
50CFX	Tolstoi and Karta soils, 5 to 100 percent slopes	HEL	NHEL
50D	Tolstoi and Karta soils, 35 to 60 percent slopes	HEL	NHEL
50E	Tolstoi and Karta soils, 60 to 75 percent slopes	HEL	NHEL
50F	Tolstoi and Karta soils, 75 to 100 percent slopes	HEL	NHEL
51C	Kitkun peat, 5 to 40 percent slopes	HEL	NHEL

52	Naukati silt loam, 5 to 10 percent slopes	HEL	NHEL
53C	Tolstoi very fine sandy loam, 5 to 35 percent slopes	HEL	NHEL
53CFX	Tolstoi very fine sandy loam, 5 to 100 percent slopes	HEL	NHEL
53D	Tolstoi very fine sandy loam, 35 to 60 percent slopes	HEL	NHEL
53E	Tolstoi silt loam, 60 to 75 percent slopes	HEL	NHEL
53F	Tolstoi silt loam, 75 to 100 percent slopes	HEL	NHEL
54C	Token gravelly sandy loam, 5 to 35 percent slopes	HEL	NHEL
54CEX	Token gravelly sandy loam, 5 to 75 percent slopes	HEL	NHEL
54D	Token gravelly sandy loam, 35 to 60 percent slopes	HEL	NHEL
54E	Token gravelly sandy loam, 60 to 75 percent slopes	HEL	NHEL
54F	Token gravelly sandy loam, 75 to 100 percent slopes	HEL	NHEL
57C	Petrel very fine sandy loam, 5 to 35 percent slopes	HEL	NHEL
57D	Petrel very fine sandy loam, 35 to 60 percent slopes	HEL	NHEL
57E	Petrel very fine sandy loam, 60 to 75 percent slopes	HEL	NHEL
61	Karheen peat, 2 to 10 percent slopes	NHEL	NHEL
62	Karheen-McGilvery complex, 0 to 70 percent slopes	NHEL	NHEL
63C	Helm, granitic-McGilvery complex, 5 to 35 percent slopes	HEL	NHEL
63D	Helm, granitic-McGilvery complex, 35 to 60 percent slopes	HEL	NHEL
63E	Helm, granitic-McGilvery complex, 60 to 75 percent slopes	HEL	NHEL
71	Isidor silt loam, 0 to 40 percent slopes	HEL	NHEL
72	Isidor-Kina association, 0 to 40 percent slopes	HEL	NHEL
73C	St. Nicholas-Kina complex, 5 to 35 percent slopes	HEL	NHEL
74C	Kupreanof silt loam, 5 to 35 percent slopes	HEL	NHEL
74D	Kupreanof silt loam, 35 to 60 percent slopes	HEL	NHEL
74E	Kupreanof sandy loam, 60 to 75 percent slopes	HEL	NHEL
74F	Kupreanof sandy loam, 75 to 100 percent slopes	HEL	NHEL
75D	Kupreanof-McGilvery complex, 35 to 60 percent slopes	HEL	NHEL
75E	Kupreanof-McGilvery complex, 60 to 75 percent slopes	HEL	NHEL
75F	Kupreanof-McGilvery complex, 75 to 100 percent slopes	HEL	NHEL
76	Partofshikof loamy sand, 5 to 60 percent slopes	HEL	NHEL
78D	Mitkof sandy loam, 35 to 60 percent slopes	HEL	NHEL
79D	McGilvery-Mitkof complex, 35 to 60 percent slopes	HEL	NHEL
79EF	McGilvery-Mitkof complex, 60 to 100 percent slopes	HEL	NHEL
80D	McGilvery-Kaikli association, 35 to 60 percent slopes	HEL	NHEL
80E	McGilvery-Kaikli association, 60 to 75 percent slopes	HEL	NHEL
81	Rock outcrop	N/A	N/A
82D	McGilvery-Kitkun complex, 35 to 60 percent slopes	HEL	NHEL
82E	McGilvery-Kitkun complex, 60 to 75 percent slopes	HEL	NHEL
83	Kina-Grindall complex, 0 to 40 percent slopes	PHEL	NHEL
84A	Grindall peat, 0 to 5 percent slopes	NHEL	NHEL
84C	Grindall peat, 5 to 35 percent slopes	HEL	NHEL
85	Kina peat, 0 to 35 percent slopes	PHEL	NHEL
86CD	Kaikli-Grindall association, 5 to 60 percent slopes	HEL	NHEL
87CD	Grindall-St. Nicholas association, 5 to 60 percent slopes	HEL	NHEL
90C	Grindall-Kitkun complex, 5 to 35 percent slopes	HEL	NHEL
90D	Grindall-Kitkun complex, 35 to 60 percent slopes	HEL	NHEL
91C	Maybeso peat, 5 to 35 percent slopes	HEL	NHEL
91CDX	Maybeso peat, 5 to 60 percent slopes	HEL	NHEL
91D	Maybeso peat, 35 to 60 percent slopes	HEL	NHEL
92C	Maybeso-Kina association, 5 to 35 percent slopes	HEL	NHEL
95	Rock outcrop and Ice	N/A	N/A
153	McGilvery-Kogish complex, 2 to 50 percent slopes	HEL	NHEL
157	Kina-McGilvery complex, 5 to 30 percent slopes	NHEL	NHEL
201	Kogish-Maybeso complex, 2 to 10 percent slopes	NHEL	NHEL
220C	Kina-Maybeso association, 5 to 35 percent slopes	PHEL	NHEL

220D	Kina-Maybeso association, 35 to 60 percent slopes	HEL	NHEL
244CD	Hydaburg-Grindall complex, 5 to 60 percent slopes	HEL	NHEL
245CD	Hydaburg-Sunnyhay association, 5 to 60 percent slopes	HEL	NHEL
245CE	Hydaburg-Sunnyhay association, 5 to 75 percent slopes	HEL	NHEL
245E	Hydaburg-Sunnyhay association, 60 to 75 percent slopes	HEL	NHEL
246CD	Calamity-Hydaburg-Rock outcrop complex, 5 to 60 percent slopes	HEL	NHEL
246E	Calamity-Hydaburg-Rock outcrop complex, 60 to 75 percent slopes	HEL	NHEL
246F	Calamity-Hydaburg-Rock outcrop complex, 75 to 100 percent slopes	HEL	NHEL
247CD	Hydaburg-Rock outcrop complex, 5 to 60 percent slopes	HEL	NHEL
247E	Hydaburg-Rock outcrop complex, 60 to 75 percent slopes	HEL	NHEL
252	Wadleigh-Kogish association, 0 to 25 percent slopes	HEL	NHEL
320C	Wadleigh-Maybeso complex, 5 to 35 percent slopes	HEL	NHEL
320CD	Wadleigh-Maybeso complex, 5 to 60 percent slopes	HEL	NHEL
320D	Wadleigh-Maybeso complex, 35 to 60 percent slopes	HEL	NHEL
331C	Karta-Wadleigh complex, 5 to 35 percent slopes	HEL	NHEL
331CD	Karta-Wadleigh complex, 5 to 60 percent slopes	HEL	NHEL
331D	Karta-Wadleigh complex, 35 to 60 percent slopes	HEL	NHEL
351D	Karta-Tolstoi complex, 35 to 60 percent slopes	HEL	NHEL
351DE	Karta-Tolstoi complex, 35 to 75 percent slopes	HEL	NHEL
351E	Karta-Tolstoi complex, 60 to 75 percent slopes	HEL	NHEL
442C	Ulloa-Sarkar complex, 5 to 35 percent slopes	HEL	NHEL
442CE	Ulloa-Sarkar complex, 5 to 75 percent slopes	HEL	NHEL
442D	Ulloa-Sarkar complex, 35 to 60 percent slopes	HEL	NHEL
442E	Ulloa-Sarkar complex, 60 to 75 percent slopes	HEL	NHEL
528CD	Tolstoi-McGilvery complex, 5 to 60 percent slopes	HEL	NHEL
528D	Tolstoi-McGilvery complex, 35 to 60 percent slopes	HEL	NHEL
528DF	Tolstoi-McGilvery complex, 35 to 100 percent slopes	HEL	NHEL
528E	Tolstoi-McGilvery complex, 60 to 75 percent slopes	HEL	NHEL
528F	Tolstoi-McGilvery complex, 75 to 100 percent slopes	HEL	NHEL
540	Tokeen-McGilvery complex, 10 to 65 percent slopes	HEL	NHEL
550C	St. Nicholas-Kaikli complex, 5 to 35 percent slopes	HEL	NHEL
550CE	St. Nicholas-Kaikli complex, 5 to 75 percent slopes	HEL	NHEL
550D	St. Nicholas-Kaikli complex, 35 to 60 percent slopes	HEL	NHEL
550E	St. Nicholas-Kaikli complex, 60 to 75 percent slopes	HEL	NHEL
615AC	Typic Humicryods and Lithic Humicryods, 0 to 35 percent slopes	HEL	NHEL
615DE	Typic Humicryods and Lithic Humicryods, 35 to 75 percent slopes	HEL	NHEL
615F	Typic Humicryods and Lithic Humicryods, 75 to 100 percent slopes	HEL	NHEL
700AC	Histosols, shallow,-Rock outcrop-Calamity association, 0 to 35 percent slopes	HEL	NHEL
700DE	Histosols, shallow,-Rock outcrop-Calamity association, 35 to 75 percent slopes	HEL	NHEL
710AC	Cryosaprists and McGilvery soils, 0 to 35 percent slopes	HEL	NHEL
710F	McGilvery and Cryosaprists soils, 75 to 100 percent slopes	HEL	NHEL
720AC	Lithic Cryohemists, Cryosaprists, and Staney soils, 0 to 35 percent slopes	HEL	NHEL
720DE	Lithic Cryohemists, Cryosaprists, and McGilvery soils, 35 to 75 percent slopes	HEL	NHEL
730AC	Kina-Kogish-Staney association, 0 to 35 percent slopes	NHEL	NHEL
800AC	Cryaquepts-Lithic Cryaquods-Cryorthents association, 0 to 35 percent slopes	HEL	NHEL
800DE	Cryaquepts-Lithic Cryaquods-Cryorthents association, 35 to 75 percent slopes	HEL	NHEL
800F	Cryaquepts-Lithic Cryaquods-Cryorthents association, 75 to 100 percent slopes	HEL	NHEL
820AC	McGilvery-Lithic Humicryods association, 0 to 35 percent slopes	HEL	NHEL
820DE	McGilvery-Lithic Humicryods association, 35 to 75 percent slopes	HEL	NHEL
820F	McGilvery-Lithic Humicryods association, 75 to 100 percent slopes	HEL	NHEL
830AC	Helm-Cryosaprists, shallow-Cryaquods, shallow association, 0 to 35 percent slopes	HEL	NHEL
830DE	Helm-Cryosaprists, shallow-Cryaquods, shallow association, 35 to 75 percent slopes	HEL	NHEL
840AC	Cryaquods-Cryohemists-Cryosaprists association, 0 to 35 percent slopes	HEL	NHEL
840DE	Cryaquods-Cryohemists-Cryosaprists association, 35 to 75 percent slopes	HEL	NHEL
RW	Riverwash	N/A	N/A

SW	Salt Water	N/A	N/A
W	Water	N/A	N/A